

Product datasheet for **MR204688**

Rbks (NM_153196) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rbks (NM_153196) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rbks
Synonyms:	5230400M11Rik; AI326806; RBSK; RK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204688 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGTGTGGGAGCCCGGAGGCCCTGGCAGGAGGAGGAGGCAGCAGCGGTGGTAGTGGTGGTT
CCTGCATGACCGACCTGGTCAGTCTTACTTCTCGCTTGCCAAAACTGGAGAAACCATCCATGGACATGA
GTTTTTTATTGGCTTTGGAGGAAAAGTGCCAACCAAGTGTGCAAGCTGCGCGACTGGGAGCAAAGGCG
GCCATAGTCTGCAAGGTTGGCAACGATTCTTTGGCAATGATTACATAGAAACTTAAACAAAAATCATA
TTTCTACAGAGTTTACATATCAGACCAGAGATGCAGCTACAGGAACAGCCTCCATAATTGTCAATAATGA
AGGCCAGAATATCATCGTCATAGTGGCTGGAGCAAATCTGTTTTTGAATTCTGAAGACTTGAAGAAGGCA
GCCAGTGTCAATTAGCCGAGCCAAAGTGATGATATGCCAGCTAGAAATAAGCCCGGCAGCTTCTCTGGAAG
CTCTGACAATGGCCCGCAGGAGTGGAGTGAACCTTGTCAACCCAGCTCCAGCCATGGCTGACCTGGA
CCCCCAGTTCTATACCCTCTCCAGTATTTTCTGCTGCAACGAGAGCGAGGCTGAGATTTTAAACAGGCCAC
GCAGTGAAGTACCCACACGGCTGGGAAGGCTGCAATGATTCTCCTAGAACGGGGCTGCCAGGTTGTGG
TCATCACCTTAGGGGCTTCAAGTGCATGACTGTCACAGGCTGAGCCTGTTCCAAAGCACATTTCCAC
TGAAGCTGTCAAGGCTGTAGACACCACGGGTGCTGGTGAAGTTTGTGGGAGCGCTGCCCTTCTACCTG
GCTTACTACCAAATCTGCTTGAAGAAATGCTCAAGAGATCCAATTTTCATCGCTGCAGTCAGTGTAC
AGGCCACGGGAACACAGTCTCTTATCCATACAAAAAGACCTCCCTCTTGTCTATTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204688 protein sequence
Red=Cloning site Green=Tags(s)

MAACGEPGRPWQEEEEAAVVVVGSCMTDLVSLTSRLPKTGETIHGHEFFIGFGGKGANQCVQAARLGAKA
 AIIVCKVGNDSFGNDYIENLKQNHISTEFTYQTRDAATGTASIIIVNNEGQNIIVIVAGANLFLNSEDLKKA
 ASVISRAKVMICQLEISPAASLEALTMARRSGVKTLFNPAPAMADLDPQFYTLSSIFCCNESEAEILTGH
 AVSDPTTAGKAAMILLERGCQVVVITLGASGCVILSQAEPVPKHIPTEAVKAVDTTGAGDSFVGALAFYL
 AYPNLSLEEMLKRSNFAAVSVQATGTQSSYPYKDLPLALF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_153196

ORF Size: 972 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_153196.1](#), [NP_694876.1](#)

RefSeq Size: 1047 bp

RefSeq ORF: 972 bp

Locus ID: 71336

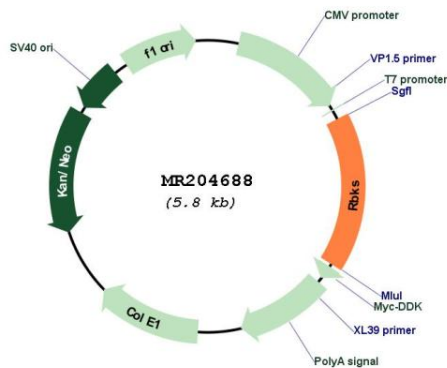
UniProt ID: [Q8R1Q9](#)

Cytogenetics: 5 B1

MW: 34.1 kDa

Gene Summary: Catalyzes the phosphorylation of ribose at O-5 in a reaction requiring ATP and magnesium. The resulting D-ribose-5-phosphate can then be used either for sythesis of nucleotides, histidine, and tryptophan, or as a component of the pentose phosphate pathway. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204688